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<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2019 Defense Logistics Agency	<b>Date:</b> February 2018
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<b>Appropriation/Budget Activity</b>	<b>R-1 Program Element (Number/Name)</b>											
0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide / BA 7: Operational Systems Development</i>	PE 0708012S / <i>Pacific Disaster Centers</i>											
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019 Base</b>	<b>FY 2019 OCO</b>	<b>FY 2019 Total</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
Total Program Element	18.291	1.690	1.770	1.770	-	1.770	1.770	1.785	1.821	1.856	Continuing	Continuing
1: <i>Logistics Support Activities (LSA)</i>	12.488	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	12.488
03: <i>Pacific Disaster Center</i>	5.803	1.690	1.770	1.770	-	1.770	1.770	1.785	1.821	1.856	Continuing	Continuing

**A. Mission Description and Budget Item Justification**

The Pacific Disaster Center (PDC) has been in operation since February 1996. The PDC is a public/private partnership managed by the University of Hawaii (UH) under a cooperative agreement with the Department of Defense. It is functionally within the organization of the Office of the Under Secretary of Defense (Acquisition, Technology, and Logistics) (OUSD(AT&L)) and the Defense Logistics Agency (DLA). The PDC is a world-recognized authority and leader in science and information technology applications relating to humanitarian assistance and disaster relief (HA/DR). PDC develops new and innovative technologies to operate an (unclassified) integrated multi-hazard hazard monitoring, early warning and decision support system, called RAPIDS, for the department.

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019 Base</b>	<b>FY 2019 OCO</b>	<b>FY 2019 Total</b>
Previous President's Budget	1.754	1.770	1.770	-	1.770
Current President's Budget	1.690	1.770	1.770	-	1.770
Total Adjustments	-0.064	0.000	0.000	-	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.064	-			

**Change Summary Explanation**

FY2017, the Small Business Innovation Research and Small Technology Transfer Research tax amounted to \$0.064M.

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Defense Logistics Agency										Date: February 2018		
Appropriation/Budget Activity 0400 / 7					R-1 Program Element (Number/Name) PE 0708012S / Pacific Disaster Centers				Project (Number/Name) 1 / Logistics Support Activities (LSA)			
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
1: Logistics Support Activities (LSA)	12.488	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	12.488
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**A. Mission Description and Budget Item Justification**

This program is reported in accordance with Title 10, United States Code, Section 119 (a)(1) in the Special Access Program Annual Report to Congress. The staff cognizance and oversight will transfer from the DLA to the Defense Information Systems Agency (DISA) effective October 1, 2014. The USD(P) will continue to be the Operational Sponsor and functional OSD Principal Staff Assistant (PSA) for the program.

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Defense Logistics Agency										Date: February 2018		
Appropriation/Budget Activity 0400 / 7					R-1 Program Element (Number/Name) PE 0708012S / Pacific Disaster Centers				Project (Number/Name) 03 / Pacific Disaster Center			
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
03: Pacific Disaster Center	5.803	1.690	1.770	1.770	-	1.770	1.770	1.785	1.821	1.856	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**A. Mission Description and Budget Item Justification**

The Pacific Disaster Center (PDC) has been in operation since February 1996. The PDC is a public/private partnership managed by the University of Hawaii (UH) under a cooperative agreement with the Department of Defense. It is functionally within the organization of the OUSD(AT&L) and the DLA. The PDC is a world-recognized authority and leader in science and information technology applications relating to Humanitarian Assistance and Disaster Relief (HA/DR). It has developed innovative technologies, and has provided operational support for an (unclassified) integrated multi-hazard hazard monitoring, early warning and decision support system, called RAPIDS, for the department since 2007. The system, covering global hazard is frequently used by COCOMS, particularly PACOM and SOUTHCOM, for HA/DR missions and exercises, and was recently selected as one of the most effective systems in a position paper by the department, reviewing all unclassified information sharing systems. "Expanded use of RAPIDS across the DoD at the Combatant Commands, Joint Task Force, and by deployed units from the services" was identified as "a primary Joint Staff objective" in a memorandum dated July 6, 2017.

**B. Accomplishments/Planned Programs (\$ in Millions)**

	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>
<b>Title:</b> Pacific Disaster Center (PDC)	1.690	1.770	1.770
<p><b>Description:</b> This program is reported in accordance with Title 10, United States Code, Section 119 (a)(1) in the Special Access Program Annual Report to Congress. The USD(P) will continue to be the Operational Sponsor and functional OSD Principal Staff Assistant (PSA) for the program. USD(AT&amp;L) will provide acquisition oversight authority for the program.</p> <p>The PDC has been in operation since February 1996. The PDC is a public/private partnership managed by the University of Hawaii (UH) under a cooperative agreement with the Department of Defense. The Pacific Disaster Center (PDC) function, manpower, and budget resources transferred to the Office of the Under Secretary of Defense (Acquisition, Technology, and Logistics) (OUSD(AT&amp;L)) and the Defense Logistics Agency (DLA) in October 2011.</p> <p>The USD(P) will continue to be the Operational Sponsor and functional OSD Principal Staff Assistant (PSA) for the program. The PDC is a world-recognized authority and leader in science and information technology applications relating to humanitarian assistance and disaster relief (HA/DR). PDC's applications and information products enhance preparedness, situational awareness, and civil-military communications for humanitarian missions worldwide, while its national-level socio-economic Risk and Vulnerability Assessments help inform strategies by measuring indicators for national resiliency using scientific methods.</p> <p>The PDC Program Office's (USD(P), ASD(HD&amp;GS), and DASD(DC&amp;MA)) primary responsibility is for management and stewardship of governmental funds provided in Defense Department appropriations for DoD missions associated with DoD CrM, HA/DR, Theater Security Cooperation, and Defense Support to Civil Authorities (DSCA). In doing this, the Program Office</p>			

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<b>Appropriation/Budget Activity</b> 0400 / 7		<b>R-1 Program Element (Number/Name)</b> PE 0708012S / <i>Pacific Disaster Centers</i>		<b>Project (Number/Name)</b> 03 / <i>Pacific Disaster Center</i>	
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>			<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>
<p>develops and provides policy, oversight and guidance, and jointly develops strategic guidelines, programmatic content and priorities with the UH and PDC. The PDC Program Office also serves as a support element of the Hawaii-based organization especially in the area of gaining Federal agency support and resources, as well as business opportunities.</p> <p><b>FY 2018 Plans:</b></p> <p>Risk and Vulnerability Assessment</p> <ul style="list-style-type: none"> <li>• Explore trend analysis based on existing Global RVA data accumulated of the prior years</li> <li>• Improve analytical reporting/visualization and automated assessment capabilities using Global RVA data</li> <li>• Incorporate country-report analytical capabilities into the above assessment reporting capabilities</li> </ul> <p>Data</p> <ul style="list-style-type: none"> <li>• Explore feasibility of hosting classified data in RAPIDS, should the application be hosted on SIPR</li> <li>• Continue development of data sources for hazards and related observational data TBD</li> </ul> <p>Modeling</p> <ul style="list-style-type: none"> <li>• Integrate alerting capabilities and hazard impact modeling</li> <li>• Continue enhancing application of hazard models to estimate initial needs for HA/DR support missions</li> </ul> <p>Application</p> <ul style="list-style-type: none"> <li>• Improve performance of the system and enhance user experience</li> <li>• Improve mobile device-related features (e.g. battery usage, etc.)</li> <li>• Continue evaluating new and innovative technologies for enhancing user experience (for RAPIDS)</li> </ul> <p><b>FY 2019 Plans:</b></p> <p>Risk and Vulnerability Assessment</p> <ul style="list-style-type: none"> <li>• Collaborate with regional Combatant Commands (e.g., SOUTHCOM, PACOM, etc.) to integrate and visualize subnational RVA data into RAPIDS</li> <li>• Improve sub-national analytical reporting/visualization and automated assessment capabilities</li> </ul> <p>Data</p> <ul style="list-style-type: none"> <li>• Explore new technologies for handling “big data”</li> <li>• Improve analytical capabilities using “big data”, including use of social media for early detection of man-made hazards</li> <li>• Continue development of data sources for hazards and related observational data TBD</li> </ul> <p>Modeling</p>					

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2019 Defense Logistics Agency		<b>Date:</b> February 2018	
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0708012S / <i>Pacific Disaster Centers</i>	<b>Project (Number/Name)</b> 03 / <i>Pacific Disaster Center</i>	
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2017</b>	<b>FY 2018</b>
<ul style="list-style-type: none"> <li>Integrate Global Exposure Model for high-resolution “impact and exposure” analytical reporting</li> <li>Continue enhancing application of hazard models to estimate initial needs for HA/DR support missions</li> </ul> <p>Application</p> <ul style="list-style-type: none"> <li>Expand use and visualization of “big data”, supporting higher-resolution baseline inventories</li> <li>Improve cross-device user experience (e.g., desktop, mobile tablets, smart phones, wearables, etc.)</li> <li>Integrate mass (alert) notification functions</li> <li>Continue evaluating new and innovative technologies for enhancing user experience (for RAPIDS)</li> </ul> <p><b>FY 2018 to FY 2019 Increase/Decrease Statement:</b> No significant change.</p>			
<b>Accomplishments/Planned Programs Subtotals</b>		1.690	1.770
<b>C. Other Program Funding Summary (\$ in Millions)</b> N/A			
<b>Remarks</b>			
<b>D. Acquisition Strategy</b> PDC projects beyond the baseline Situational Awareness & Decision Support Applications/Tools architecture (Atlas/EMOPS/RAPIDS) undertaken in support of the DoD Cooperative Agreement (CA) with the University of Hawaii (UH) are from PDC customers (e.g., DoD, NGOs, other nations, academia, and industry). The PDC prepares the public, disaster managers, governments, and others to mitigate the effects of disasters. The goal is to have people and technology work together to preserve life, safeguard livelihoods, protect property to foster disaster-resilient communities. Projects obtained and funded from this customer base serve as a means to determine PDC product and services relevancy.			
<b>E. Performance Metrics</b> Projects objectives and tasks are designed to build upon the previous year’s successes and are consistent with the framework and direction provided by the Strategies 2016-2020 document (updated Nov 2016). At the beginning of each calendar year, an Annual Plan is in-place to guide the program and enable a framework for performance feedback to the DoD PDC Program Manager, the PDC Executive Director, WHS CA Contracting Office, and the UH. At the end of each calendar year, these stakeholders meet to review the past year performance and finalize a new Annual Plan for the next calendar year. This plan details a set of specific objectives to further capabilities and capacities supporting the PDC’s mission and increasing operational value to the stakeholders.			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Defense Logistics Agency												Date: February 2018			
Appropriation/Budget Activity 0400 / 7						R-1 Program Element (Number/Name) PE 0708012S / Pacific Disaster Centers				Project (Number/Name) 03 / Pacific Disaster Center					
Test and Evaluation (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
PDC Disaster AWARE: Early Warning and Decision Support Applications	MIPR	University of Hawaii Systems : Honolulu, HI	5.803	1.690	Dec 2016	1.770	Mar 2018	1.770	Mar 2019	0.000		1.770	Continuing	Continuing	-
Subtotal			5.803	1.690		1.770		1.770		0.000		1.770	Continuing	Continuing	N/A
			Prior Years	FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			5.803	1.690		1.770		1.770		0.000		1.770	Continuing	Continuing	N/A
Remarks															

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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2019 Defense Logistics Agency	<b>Date:</b> February 2018
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<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0708012S / <i>Pacific Disaster Centers</i>	<b>Project (Number/Name)</b> 03 / <i>Pacific Disaster Center</i>
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	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
PDC																												
PDC																												

	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
PDC																												
PDC																												